



**DESCRIPTION**

- Relays for overload protection Phase sequence and phase loss for 3-phase 3-wire (PM-017) and 3-phase (4-wire) systems (PM- 017N)
- There is a split button that adjusts the voltage drop between 80 to 95% volts and the overvoltage between 105 and 120% volts.
- Check the Phase Sequence of the 3-phase power system. motor protection
- Check phase loss in one or more phases. One phase, even if there is back light from the motor (back e.m.f.) the motor is empty.
- LED display on relay operation.
- Suitable for 3 phase load protection corrupt because the voltage falls over. Phase sequence is invalid and phase is missing.
- In case of PM-017N (3 Phase 4 ), if the neutron is missing, the relay will not operate.

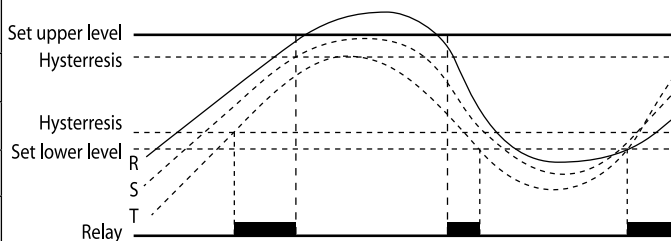
**TECHNICAL SPECIFICATION**

Model.		PM-017	PM-017N
Power Supply		3 Phase 3 Wire	3 Phase 4 Wire
Power Consumption		110, 220 , 380, 400VAC ±10% 50/60 Hz	
Display		Red LED (Under Voltage / Relay OFF)	
		Red LED (Over Voltage / Relay OFF)	
		Red LED (Phase Sequence / Relay OFF)	
		Green LED (Relay ON)	
Input	Scale Adjustment	Over Voltage Scale 105 to 120% Volt Under Voltage Scale 80 to 95% Volt	
	Hysteresis	1 %	
	Accuracy	±2VAC	
Output	Relay Output	1 Relay Output 10A 250VAC	
Ambient Operation	Temperature	-10°C to 60°C	
	Humidity	85 % RH Non-Condensing	
Ambient Storage	Temperature	-20°C to 80°C	
	Humidity	85 % RH Non-Condensing	
Protection Degree		IP40	
Installation		DIN RAIL Mounting	
Material		ABS-V0	
Size		38 x 80 x 83.5 mm.	
Weight		210g.	

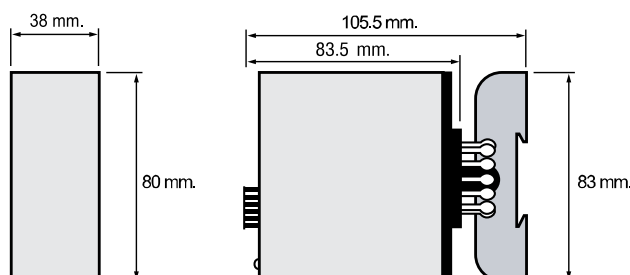
**OPERATION**

When connecting PM-017 and PM-017N to 3-phase power system. The voltage is in normal state ( not exceeding the set UL and not lower than the set LL). The phase sequence is correct (RS T) and the power is at all phases. The relay contact will work to connect the circuit to the load. The LED indicates that the relay is working. If the voltage falls or exceeds the set voltage. Phase sequence is invalid and phase is missing. The relay contact will stop working to cut off the circuit and the LED will go out.

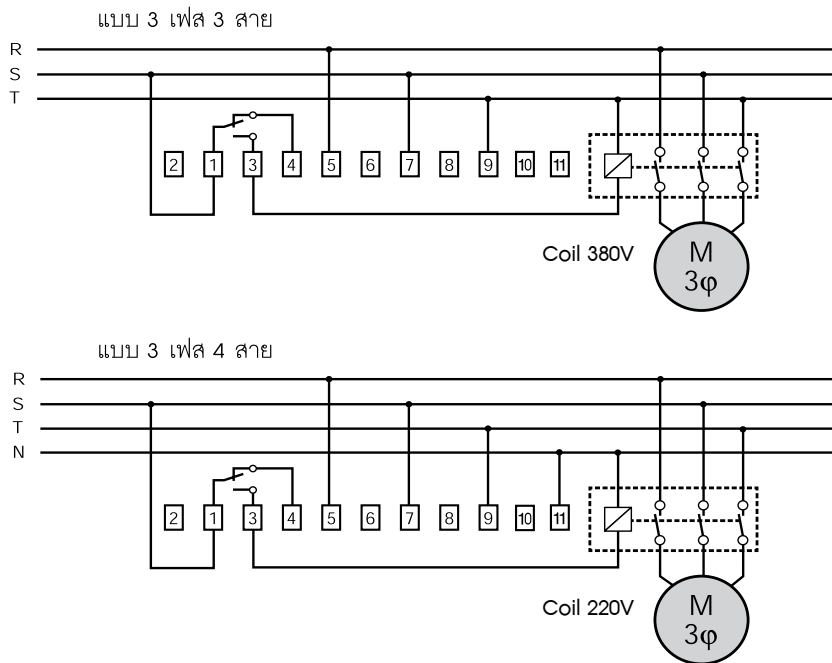
**OPERATING GRAPH**



**DIMENSION**



**WIRING DIAGRAM**



**ORDERING CODE**

Electrical System	
PM-017	3 เฟส 3 สาย
PM-017N	3 เฟส 4 สาย
Power Supply	
110 VAC	3 x 110 VAC
220 VAC	3 x 220 VAC
380 VAC	3 x 380 VAC
400 VAC	3 x 400 VAC